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ABSTRACT

The annotated bibliography lists approximately 180 energy and conservation education resources. The bibliography is intended to aid K-12 classroom teachers and curriculum developers identify key resources as they develop and implement energy education programs. Sample topics in the works listed deal with the story of natural gas, living with energy, hints for conserving energy in household heating, tips to protect the environment, principles of wind-powered systems, global food problems, solar energy, energy futures, and the history of coal usage. References include story books, teaching guides, energy education units, multimedia kits, catalogs, notebooks of classroom activities, bibliographies, posters, and photograph collections. Entries are arranged alphabetically by name of agency from which the material is available. Eighty-six agencies are listed, including universities, state departments of education, government agencies, private companies, educational agencies, information clearinghouses, publishers, and boards of education. For each entry, information is presented on name and mailing address of agency from which material is available, author, title, annotation, grade level, number of pages, and price. An index lists individual materials alphabetically by title and suggests the grade level or levels for which the material is appropriate. (DB)

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THE ENERGY EDUCATION BIBLIOGRAPHY

An Annotated Bibliography

of Key Resources for Energy and Conservation Education

By Sharon Scherner
John Jones
Ed Dalton

SP-011527

Energy & Man's Environment
0224 S.W. Hamilton
Portland, OR 97201

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FORWARD

ACKNOWLEDGMENT

This is the second edition of the ENERGY EDUCATION BIBLIOGRAPHY. The first edition originated with Dr. Jonathan Wert, who is now associated with the Pennsylvania State University; and his associate, Sherry Beard, University of Tennessee. Final additions and refinements were added to the first edition by the staff of Energy & Man's Environment. This year the ENERGY EDUCATION BIBLIOGRAPHY has been revised and edited by Sharon Scherner, Energy & Man's Environment. Material no longer available has been eliminated, price changes noted when possible, and many new materials have been added.

PURPOSE

The ENERGY EDUCATION BIBLIOGRAPHY is designed to help our teacher colleagues identify excellent energy and conservation education resources. We hope that this assistance will facilitate the use of these critical materials in the classroom.

USING THE ENERGY EDUCATION BIBLIOGRAPHY

The BIBLIOGRAPHY includes both reference and instructional materials for energy and conservation education. Each item has been judged to have special merit for those who work with students or prepare instructional materials. Each citation is annotated to permit a rapid and efficient content evaluation. The BIBLIOGRAPHY is organized alphabetically by name of publisher. Preceding the annotations, an index lists the individual materials alphabetically by title. Appropriate grade levels are indicated to facilitate teacher selection.

NOTES AND NEW MATERIALS

The BIBLIOGRAPHY is a current reference to energy and conservation materials which are judged to be among the best available. However, this is not a comprehensive listing. New sources continue to appear. As you identify and evaluate new items, use the section entitled "NOTES AND NEW MATERIALS" to record your discovery. If you find the material to be exceptional and worth sharing, let us know by using the "RECOMMENDED ADDITIONS" section at the end of the document.

COMMENT

Energy scarcity has been the rule rather than an exception throughout human history. Until the modern era, energy available to do work was limited primarily to muscle and the renewable resources: wood, water and wind. Not until the last century did mankind begin to exploit the abundant but finite fossil fuels – coal, oil and natural gas – and convert their stored solar energy to power for productive use. This use has accelerated to the extent that the modern era has been called the "fossil fuel age."

The availability of abundant and inexpensive energy led ultimately to western industrialization and evolution of an energy-intensive, high technology society. Contemporary material abundance (for a portion of the world's population) is both a cause and consequence of technological application to energy and mineral extraction, processing and use. Our potential has been extended even further with the promise of nuclear, solar, geothermal, wind and other more exotic energy systems and sources. Low cost abundant energy has made available services and consumer goods beyond the most ambitious expectations of ancient kings.

As is generally the case, negative consequences have accompanied the positive. Not only has the quality of life improved, but growth and affluence have also encouraged the disintegration of traditional conservation practices and the growth of a "consumption ethic." "Waste," in the words of one observer, "has become one of our most important products." The term often used to describe our casual disregard for resources is the "throwaway society." We are living with an assumption of infinite resources, infinitely exploitable. There is, however, substantial evidence that we have entered a period of transition – that we are moving inexorably toward the more normal conditions of scarcity.

As we approach inherent limits of finite resources, it will be increasingly essential to practice a conservation ethic. Failure to do so will erode the potential for an acceptable quality of life for future generations and the possibility that less advantaged peoples will rise above conditions of marginal survival. Wise and efficient consumption practices, however, will not occur spontaneously. Attitudes and skills that form the basis for such behavior will result only from carefully conceived and implemented educational experiences – or the futility and desperation of crisis. The educational community's responsibility is a clear and urgent one.

The Energy Conservation Education Bibliography is designed to help our educator colleagues identify key resources. By providing easy access to these important and proven materials we hope to encourage their use and expedite their infusion into existing instruction programs.

The need is as basic as survival.

John C. Jones, D.Ed
President
Energy & Man's Environment

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THE ENERGY EDUCATION BIBLIOGRAPHY

ABINGDON PRESS
201 8th Avenue South
Nashville, TN 37202

Smaridge, Norah. *Only Silly People Waste,* 1976. Fourteen silly poems that introduce young children to the importance of conserving energy and materials. K-2. 28 pages. $4.25.

AMERICAN GAS ASSOCIATION
Educational Services
1515 Wilson Boulevard
Arlington, VA 22209

Experiments: Properties of Gas and Heat Energy. Seventeen experiments on properties of gas and fourteen experiments on heat energy. Prepared on spirit duplicating masters for easy reproduction by teachers for student use. For junior and senior high school students.

"Gas Centered Projects for Science Fairs." Pamphlet for junior and senior high school students. Contains 32 projects and references for further study.

"How Your Gas Meter Works." A teaching kit in simple, lay language, with illustrations and diagrams, explaining the workings of the gas meter. Designed for use at the junior high school teaching level in General Science and Social Studies classes. Included are: one booklet – "How Your Gas Meter Works"; one wall chart, 17" x 22" in two colors; two spirit duplication masters for reproducing student handout sheets.

"Natural Gas Serves Our Community." A cut-out kit for the elementary school level. Consists of 28 pictures on pasteboard in four colors, depicting the story of gas from the gas fields to the community and its many uses there, plus a cord for pipelines and identifying banner. Included is a text with illustrations in four colors. It describes where gas is found, how it is located, and the flow of gas from source to home or industry. Two sets: one is written for the 2-3 grade level; the other for 4-5 grade level.

Story of Natural Gas Energy. Tells the fascinating story of natural gas – where it comes from, how it got there, and how much there is. Discusses exploration, transmission, distribution, storage, household and commercial uses, and by-products of natural gas. The last chapter provides a look into the future through research connected with the gas industry. Suitable for 6th grade and above. 50 illustrations. 48 pages.

AMOCO TEACHING AIDS
P.O. Box 1400K
Dayton, OH 45414

Standard Oil Company (Indiana) Public & Government Affairs Department, *Living With Energy,* 1975. This package contains five spirit duplicating masters and teacher's instructions to provide a variety of activities for use in studying energy problems. This material can be used most effectively after viewing the 26-minute, color motion picture film *Living With Energy,* available from Modern Talking Picture Service, 2323 New Hyde Park Road, New Hyde Park, NY 11040. Film distribution is in the states of Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, South Dakota, Oklahoma, Wisconsin, Colorado, Montana, and Wyoming only. However, this is a self-contained unit and can be used by teachers and students who have not seen the film. It is suggested for use in grades 7-10. Each kit serves a minimum of 200 students. Copies are available for $1.00 (by check only), made payable to Amoco Teaching Aids.

AMOCO TEACHING AIDS, continued:

Standard Oil Company (Indiana) Public & Government Affairs Department, *The Energy Crisis: What You Can Do About It,* 1978. A package similar to the above (no corresponding film) designed for students in grades 4-6. Stresses personal involvement. Copies are available for $1.00 (by check only), made payable to Amoco Teaching Aids.

CENTER FOR ENVIRONMENTAL LEARNING
Instructional Services Division
1274 South Florida Avenue
Rockledge, FL 32955

Teacher's Environmental Resource Unit: Energy and Power, 1975. Contains current information concerned with the U.S. energy crisis and its environmental impact. It is intended to give the classroom teacher a basic understanding of the environmental problems that the need for energy and power has created. Also includes an overview of energy needs, the pollution factors to be dealt with, possible solutions, and estimates of the cost factors involved. $1.10.

CHANGING TIMES EDUCATION SERVICE
1729 H Street, NW
Washington, DC 20006

This Energy Crisis: Is It Real? A mini-unit course in which reasons for increases in energy demand are discussed. Included are 40 copies of an article reprint, a black-and-white transparency, and a teacher's guide. Grades 9-12. $12.00.

CHARLOTTE-MECKLENBURG BOARD OF EDUCATION
Science Department
P.O. Box 149
Charlotte, NC 28230

Valuing the Environment, 1974. Funded by Project S.E.E.D. (State Experimental Education Development). Developed for use in grades K-6, this teacher designed program seeks to develop in students a greater awareness of the environment and the role they play. Includes sections on energy, natural resources, land use, and pollution. 136 pages. $3.50. *Valuing the Environment* for grades 7-12 (1975), 132 pages. $2.50.

CHILDREN'S PRESS
1224 W. Van Buren Street
Chicago, IL 60607

Gutnik, Martin J. *Energy: Its Past, Its Present, and Its Future,* 1975. This illustrated book explains how energy has influenced people's ways of life since prehistoric times. Suitable for grades 3-5. 48 pages. $6.60.

CONCERN, INCORPORATED
2233 Wisconsin Avenue
Washington, DC 20007

"Energy Conservation," 1973. Recommended for junior and senior high school students. $0.35 each; $16.00 per 100 copies.

"Fossil Fuels," 1974. Recommended for senior high students. $0.30 each; $13.50 per 100 copies.

"Geothermal," 1974. Recommended for senior high students. $0.20 each; $8.50 per 100 copies.

"Nuclear Energy," 1974. Recommended for senior high students. $0.35 each; $16.00 per 100 copies.

"Solar Energy," 1974. Recommended for senior high students. $0.35 each; $16.00 per 100 copies.

CONSUMER INFORMATION CENTER
Pueblo, CO 81009

Buying Solar, 1976. How solar energy can be used to heat and cool your house and heat your water; advantages of the different types of equipment and systems; designing a system; how to estimate costs and savings. 80 pages. $1.85. Catalogue number 062F.

Checking Your Utility Bills, 1974. How to read gas and electric meters, calculate your utility costs, and understand the company's billing methods and forms. 4 pages. Catalogue number 600F. Please indicate FREE on envelope.

Energy Ant, 1975. Activities and coloring book to teach mid-elementary school children about conserving energy. 28 pages. Catalogue number 640F. Please indicate FREE on envelope.

Give a Hoot, Don't Pollute! 1976. Woodsy Owl's tips to help improve and protect the environment; includes poster and coloring sheet. 4 pages. Catalogue number 521F. Please indicate FREE on envelope.

Once There Lived a Wicked Dragon, 1975. Story book to teach children about ecology; includes pictures to color. 32 pages. Please indicate FREE on envelope.

Tips for Energy Savers, 1975. Hints for conserving energy in household heating, cooling, appliance use; in the workshop; and in family activities. 31 pages. Catalogue number 606F. Please indicate FREE on envelope.

CROWELL, THOMAS Y., CO.
10 East 53rd Street
New York, NY 10022

Branley, Franklyn M. *The Sun, Our Nearest Star,* 1961. Tells why the sun is necessary to our lives. Describes its size, shape, and characteristics. Primary grades. 36 pages. $4.50. (Library binding, $5.95.)

DEPARTMENT OF ENERGY
Technical Information Center
P.O. Box 62
Oak Ridge, TN 37830

The Energy We Use. This is an instructional unit developed by the National Science Teachers Association (NSTA), under a contract to the Energy Research and Development Administration, containing nine lessons for students on the first grade level. Through this unit, students discover that energy is one of the links between them and the world around them.

Community Workers and the Energy They Use. This unit, developed by NSTA for ERDA, contains 13 lessons revolving around the theme of the relationship between the community and energy use. This unit is suitable for second grade students.

Energy Activities with Energy Ant and My Energy Book. Developed by the Federal Energy Administration, these booklets feature a cartoon character called Energy Ant who tells students , Grades 1-3, about energy and how to use it wisely. As outgrowths of these two booklets, two Energy Ant film strips with cassette tapes have also been produced. Single copies of the Energy Ant print materials are available through the Consumer Information Center (see citation in this *Bibliography.)* Bulk copies are available from the Department of Energy, Office of Public Affairs, 12th and Pennsylvania Avenue, Washington, DC 20461. The filmstrips and cassette tapes,*What is Energy and What is Energy Conservation,* are available for $12.50 through the National Audio Visual Center, Washington, DC 20409.

Science Activities in Energy. This is a science package for grades 4-6 containing four file folders of activities and experiments. The topics are Solar, Electrical and Chemical Energy as well as Energy Conservation. The approach used to implement the lessons is "hands-on," with students constructing and manipulating materials in order to discover fundamental scientific relationships. These packets were developed by the Oak Ridge Associated Universities, and may be obtained from them at P.O. Box 117, Oak Ridge, TN 37830.

DEPT. OF ENERGY continued:

My Energy World. This is a set of four spirit master file folders on conservation, containing spirit master duplicating activity sheets for students from grades 4-6.

The Energy Challenge. This was developed for use in junior high school classes and provides 24 duplicating master activity sheets along with teaching guides. The booklet contains lessons on energy subjects such as fossil fuels, solar energy, new energy technologies and conservation. It is now being revised for reprinting. Grades 7-9.

Energy Conservation: Understanding and Activities for Young People. This 24-page booklet discusses the meaning of energy, its sources and limitations, and conservation activities. Grades 7-9.

Transportation and the City. This unit developed by NSTA contains four learning activities dealing with energy consumption, supply and demand relationships, the development of suburbs and urban transportation. It is suitable for use in eighth and ninth grade social studies classes.

How a Bill Becomes Law to Conserve Energy. This instructional unit, developed by NSTA, traces the steps involved in the passage of a law by Congress focusing on the 55 MPH Speed Limit Law and how it affects energy conservation. Seven learning activities. Grades 10-12.

Bringing Energy to the People: Washington, D.C. and Ghana, 1978. This interdisciplinary unit provides a comparative overview between cultures that establishes two concepts: that energy is a basic need in all cultures; that energy use affects the way people live. FIELD TEST DRAFT. 80 pages. Grades 6 and 7.

Networks: How Energy Links People, Goods, and Services, 1978. Six interdisciplinary lessons that investigate energy networks, such as electrical circuits, sources, conversions, and end use consumption. FIELD TEST DRAFT. 100 pages. Grades 4 and 5.

An Energy History of the United States, 1977. Charts the growth of American energy use and traces the history of the major sources of energy in the U.S. FIELD TEST DRAFT. 117 pages. Grades 8 and 9.

Energy, Engines and the Industrial Revolution, 1977. Study units include "The Giant Step of the Industrial Revolution," a student reader covering the years 1700-1860 with focus on energy; and "The Great Joule Robbery" in which the contribution of the heat engine (gasoline and diesel engines and steam turbines) to the Industrial Revolution is described. 82 pages. Grades 8 and 9.

Mathematics in Energy, 1978. This packet is designed to infuse energy into junior high math classes. The unit deals with a wide range of energy math including conversions, statistics, and the manipulation of energy units (BTU's, watts, calories, etc.) FIELD TEST DRAFT. 72 pages. Grades 8 and 9.

Agriculture, Energy, and Society, 1977. Interdisciplinary unit helps students examine the nature of present-day agricultural methods and study the impact of these methods on existing energy resources. 36 pages. Grades 10 and 12.

Energy Conservation in the Home: An Energy Education/Conservation Curriculum Guide for Home Economics Teachers, 1977. This resource book will help home economics students learn how to conserve energy in their homes and lives. 335 pages. Grades 7-12.

Award Winning Energy Education Activities for Elementary and High School Teachers, 1977. Contains brief descriptions of prizewinning entries in the National Science Teachers Association Teacher Participation Contest conducted in 1976. The contest sought ideas that would fit easily into standard (science and non-science) courses of study at various grade levels to further student understanding of important energy issues. 38 pages.

The following DOE energy education materials are not available from the Technical Information Center but rather from: U.S. Department of Energy, Distribution, Office of Administration and Services, Washington, D.C. 20545.

Energy Ant Posters: The Wind and Sun; The Diamond (Coal); The Hare (55 mph). 17 x 22. Color.

Careers in Energy Industries, 1975. Identifies the skills needed to build and operate energy facilities as the job market expands to accommodate increased production, transportation, and processing of energy. Also includes job skills involved with conservation practices and installation of conservation materials. 12 pages. Teacher resource.

Organizing School Energy Contests, 1975. Brochure explaining how to organize a local community energy contest through the schools. Teacher resource.

DISCOVER ENERGY SERIES
Ecology Center of Ann Arbor
417 Detroit Street
Ann Arbor, MI 48104

Harris, Margery. *Discover Energy Series,* 1976. A five-part curriculum activities guide, providing comprehensive, organized information on virtually all aspects of energy – from scientific definitions and experiments to the structure of the energy industry itself. Grades 7-12. 150 pages. $10.00 per set. Please add $0.30 postage.

DOVER PUBLICATIONS
180 Varick Street
New York, NY 10014

Mott-Smith, Morton. *The Concept of Energy Simply Explained.* 1964. A Dover reprint discussing heat energy, heat engines, and the laws of thermodynamics. In non-technical language, such topics as the heat theory, energy conservation, and entropy are presented. Recommended for high school students and teachers. 215 pages. $2.75.

DUTCHESS COUNTY BOARD OF COOPERATIVE EXTENSION SERVICES
R.D. 1
Salt Point Turnpike
Poughkeepsie, NY 12601

Mengel, Wayne. *Energy, Key to the Future,* 1974. This book of teaching techniques for the understanding and conservation of energy is geared for grades K-12. They are not complete lesson plans – they are ideas that act as starting points for further development by the teacher. 32 pages. $4.00.

EDISON ELECTRIC INSTITUTE
Education Services
90 Park Avenue
New York, NY 10016

Electrical Safety In and Around the Home. A multi-media electrical safety education program for intermediate and middle school grades. The unit contains one teacher guide, two filmstrips with audio cassettes, five activity sheets, a game poster and 60 "Look Alive, Be Alive!" stickers. Single copies are $22.00 each postpaid.

The Energy Challenge: What Can We Do?, 1974. Recommended for grades 3-12.

"Energy Conservation: Experiments You Can Do." Recommended for grades 5-10.

The Energy-Environment Game, 1978. This game deals with energy demand and the effect it has on the environment. Students become the decision-makers in this simulation of reality. Recommended for science, social studies and English classes in grades 7-12. Unit contains materials necessary for 32 participants: 32 role cards, 32 player's guides, cassette and filmstrip, a wall poster map and site selection information on duplicating spirit masters. $30.00.

Energy – Now and in the Future, 1977. Multimedia kit contains: 6 filmstrips and 6 cassettes with sound tracks for students and teachers, 12 duplicating activity sheets and 1 Teacher's Guide. Recommended for grades 6-8. $30.00.

Meet a Powerful Friend. An educational and entertaining introduction to the concept of energy for students in grades K-3. This multimedia kit combines explanation with participation to show how important energy is to the American lifestyle. The kit contains five lessons, 3½-8 minutes in length. Kit materials include an audio cassette, four color filmstrips, four spirit master activity sheets, a teacher's guide and a storage carton. $20.00 per kit. Please order directly from distributor: Spartan Graphics, 288 South State Street, Sparta, MI 49345.

EDISON ELECTRIC INSTITUTE continued

104 Ways to Control Your Electric Bill, 1976. Lists of ways by which energy used in the home may be reduced. Junior and senior high. 12 pages. Single copies free on request in United States and Canada.

Our Energy-Based Economy, 1974. Multimedia kit contains: four filmstrips, four records, duplicating activity sheets and a teacher's guide. Recommended for grades 6-8. $30.00.

Questions and Answers About the Electric Utility Industry, 1976. (Currently being updated.) Booklet containing answers to questions asked about electric energy. Junior and senior high. 36 pages. Single copies free on request in United States and Canada.

ELECTRICAL INDUSTRIES ASSOCIATION
9911 W. Pico
Los Angeles, CA 90035

"The Energy Saving Guidebook." Recommended for grades 3-12.

ENERGY & MAN'S ENVIRONMENT
0224 S.W. Hamilton
Portland, OR 97201

Energy Activity Guide, 1976. The seven-part *Energy Activity Guide* is a multidisciplinary source of energy and conservation education ideas for the teacher and curriculum planner. The introductory booklet provides a framework of goals, concepts and objectives. Six accompanying books each focus on one key topic area – energy sources, uses, impacts, conversions, limits and future sources. Each booklet suggests dozens of classroom activities. Grades 1-12. $25.00.

Energy and Conservation Education: Activities for the Classroom, 1977. This resource contains more than 250 teacher-developed and classroom-tested lesson plans for all grades and content areas. Four binders present the material in sets for grades 1-3, 4-6, 7-9, and 10-12. $24.00 each notebook; $86.40 for the set of four.

Energy Education Bibliography, 1978. The *Bibliography* is an annotated listing of over 150 key energy and conservation education materials from all sectors. A valuable resource for teachers and curriculum planners. $4.00.

Energy Films Index: A Teacher's Guide to Current Energy Films, 1976. (Revised edition planned for June, 1978.) Most educationally important energy films are catalogued and described in the *Index.* Citations provide complete information to enable the teacher or curriculum planner to quickly evaluate the relevance of each film to individual needs. $4.00.

Energy & Environment Glossary, 1976. (Revised edition planned for Fall, 1978.) The *Glossary* is an extensive presentation of terms which occur frequently in EME instructional and reference materials and in general literature. $4.00.

Energy Calendar, annual. The Ene / Calendar is designed for the classroom. It contains projects, activities, quotations and information intended to interest students and encourage investigation of energy and conservation topics. Published each September. $4.00.

Energy Conservation Corps, 1977. A stimulating classroom-centered and community-focused conservation project for 5th and 6th graders. Corps activity includes the study of basic energy and conservation concepts, and the distribution of the practical *Energy Saver's Guide* to parents and neighbors. Teacher designed and field-tested in a major school district. Corps kit includes *Teacher Implementation Guide,* lesson plans, wall progress chart, membership buttons and cards, student kit, recognition certificate, and *Energy Saver's Guides.* Sample package, $5.00. Classroom set for 1 teacher, 30 students, and 150 homeowners, $50.00. (Add $1.00 for each additional student.)

ENERGY, FOOD AND YOU PROGRAM
Attention: Lolly Smith
c/o Shoreline School District
NE 158th and 20th Avenue NE
Olympia, WA 98504

Angell, Tony and Christina Peterson. *Energy, Food and You,* 1977. Interdisciplinary curriculum guides for elementary and secondary schools. Activities focus on global food problems, energy and resource use, the U.S. food system, and energy-efficient alternatives. An excellent topical treatment with personal management focus. 275 pages each document. $5.00 each. Make check out to ESD 121.

ENERTECH
P.O. Box 420
Norwich, VT 05055

Planning a Wind-Powered Generating System, 1977. This planning manual describes the basic principles of any wind-powered system, the types of systems available and the functioning of each component part in the system.

The manual also contains detailed suggestions for measuring windspeeds and energy at the site and for estimating the electrical requirements. It includes a building-block approach for those who cannot purchase all the components simultaneously, and attempts to answer the questions most commonly asked by homeowners, architects, engineers and students. $3.00. Add $0.50 for first class postage.

ENVIRONMENTAL ACTION COALITION
156 Fifth Avenue
Suite 1130
New York, NY 10010

Eco-News. An activity-oriented environmental newsletter for upper elementary students. Combines facts with cartoon-like illustrations to explore the nation's urban/suburban habitat. Published seven times a year. Single issues $1.25; include Teacher's Guide.

Teachers who become members of the Environmental Action Coalition receive a one-year subscription to *Eco-News,* free use of EAC's environmental research library, free loan of slides and films, EAC newsletters and progress reports, and a special rate on teaching packets. The teaching packets have been developed for upper elementary grades and each contains in-depth lesson plans, student activities, bibliographies, background information, and suggested audio-visual materials. Solid waste, energy, and street trees are the topics covered. Annual membership: $10.00.

ENVIRONMENTAL ACTION REPRINT SERVICE
2239 East Colfax
Denver, CO 80206

EARS Energy Catalog. Each catalog offers a large selection of books, articles, plans, blueprints, posters, bumper stickers, T-shirts, and lapel pins. A recent catalog covered the following topics: alternative energy sources, general solar, buildings, applied solar energy, energy conservation, energy and energy policy, solar cells, solar directories, solar greenhouses, windpower, methane, wood energy, appropriate technology, cooperative self-reliance, food policy, gardening, visions of the future, and utilities. Catalogs are issued two or three times a year. Free in single copies; "donations for postage appreciated." Write for latest catalog.

EARS Nuclear Information Catalog. Format similar to the above. A recent issue offered resources covering the following topics: general information on nuclear power, safety, biological effects, economics, insurance, issues and action, nuclear terrorism, nuclear wastes, utilities, nuclear graphics. Catalogs are issued two or three times a year. Free in single copies; "donations for postage appreciated." Write for latest catalog.

ENVIRONMENTAL EDUCATION AND SCIENCE RESOURCE CENTER
Marsha Bagby School
95th and Mohawk
Shawnee Mission, KS 66206

Tilly, Jim. *Changes Ahead for Gas-Guzzling America.* This module is concerned with the fuel crisis as it pertains to the most immediate facet of a young student's life – his car and his job. What is the nature of this crisis and what possible changes may result are the two questions this module attempts to answer. Recommended for driver-aged students, especially in grade 12. $1.50 per module.

ERIC
Box 190
Arlington, VA 22210

Energy Activities for Junior High Science, 1977. Developed by the Minnesota Energy Office. A folder of student activities on energy for science classes. Grades 7-9.

Energy Activities for Junior High Social Studies, 1977. Same as above. Designed for social studies classes. Grades 7-9.

EXXON, U.S.A.
Public Affairs Department
P.O. Box 2180
Houston, TX 77001

Walt Disney Productions. "Mickey Mouse and Goofy Explore Energy," 1976. Very comprehensive, yet delightfully presented energy comic book. Copies are available from the above address. Covers previous sources of energy and possible future sources. K-6.

GRIST MILL, THE
90 Depot Road
Eliot, ME 03903

Morrell, William H. *The Energy Miser's Manual,* 1977. This humorous, philosophical book contains many ideas on how to go about cutting down on energy use. 77 pages. $2.25 paperback.

HARRIS COUNTY DEPARTMENT OF EDUCATION
6208 Irvington Boulevard
Houston, TX 77022

Sheridan, Jack. *Investigating Resource Acquisition and Use,* 1976. A strategy in which the student becomes an oil operator charged with the responsibility of finding petroleum for a hypothetical nation facing an acute energy shortage. As an oil operator, he becomes involved in simulated drilling sessions much like the real kind. He must form a company, study seismic surveys, lease land, borrow money, choose drill sites, etc. At one point the student is faced with a conflict: he may choose to drill in a formerly restricted and very enticing area; however, in so choosing, he will lose his depletion allowance. Through such involvement, the student achieves insight into the function of role and situation in the acquisition of resources and a greater understanding of the complexities in seeking and securing vital resources. 107 pages. $3.25 paperback.

HARVEY HOUSE
128 W. River Street
Chippewa Falls, WI 54729

Chaffin, Lillie. *Coal, Energy & Crisis,* 1974. A succinct, thoughtful introduction to an important energy source. Grades 4-7. $3.99.

Ruchlis, Hyman. *Thank-you Mr. Sun!,* 1957. This picture book with text explains the many things the sun gives us – water, food, warmth, etc. Primary grades. 43 pages. $4.69.

HUBBARD SCIENTIFIC COMPANY
P.O. Box 104
Northbrook, IL 60062

Energy and Society: Investigations in Decision Making. Interdisciplinary nine-week instructional unit for high school and adult students; focuses on factors that affect energy decisions at personal, national, and global levels. Kit contains 120 page student handbook and 72 page teacher's guide, $7.00; 35 mm slide show, $15.00; 8 photo study cards, $8.00; 8 mm film loop, $25.00; energy game, $35.00. Entire kit may be purchased for $85.00.

INTEGRAL URBAN HOUSE
1516 Fifth Street
Berkeley, CA 94710

Farallones Poster, 1978. A small poster which graphically illustrates relationships between energy, food, man and waste. $0.75. Please prepay.

INTERACT COMPANY
Box 262
Lakeside, CA 92040

Yount, David and Paul Dekock. *Balance,* 1970. In *Balance,* your classroom simulates the value conflicts facing four contemporary American families living in a contemporary American city. Families choose between economic-social values necessary for a family to function and ecological values necessary for our physical environment to survive. The focus is on learning the extent of the current ecological crisis, appreciating the difficulties facing families wanting to do something to alleviate the crisis, and gaining skills in researching materials and interviewing adults about the crisis. Interdisciplinary; designed for secondary students but with adaptation can be used in biology, English, and social studies classes from grades five through college. Contains teacher guide, 35 student guides, and reproducible masters. $14.00.

IOWA ENERGY POLICY COUNCIL
215 East 7th Street
Des Moines, IA 50309

Iowa Department of Public Instruction, *Energy Conservation Packet,* 1977. There are five notebooks in this series. One is designed for grades K-2. The remaining four are for grades 3, 4, 5, and 6 (one notebook for each grade level). These are extremely helpful classroom activities on the study of energy. Some activities are for group work; others may be completed on an individual basis. Many of the activities are designed to stimulate parental and total family involvement. Duplicating masters are included. Each activity fits into a framework of goals and objectives established by the Iowa Department of Public Instruction. The notebooks are $2.00 each; $10.00 for the set of five. Please specify grade level(s) when ordering.

KANSAS POWER & LIGHT COMPANY
Customer Assistance Coordinator
P.O. Box 889
Topeka, KS 66601

King, Robert E., funded by a grant from the University of Kansas Endowment Association, using money contributed by the Kansas Power & Light Company and the Kansas City Power and Light Company. *Energy and Your Future.* A two-week module for the secondary schools, designed to help students consider our options and needs for energy. Includes classroom activities and suggestions for field trips. Teacher's guide and student guide available.

KEEP AMERICA BEAUTIFUL, INC.
99 Park Avenue
New York, NY

Recycling-Establishing a Citizen-Sponsored Reclamation Center. This clear and readable booklet contains all of the hows and whys of establishing a local recycling center. It contains important checklists for getting the initial approval, forming the necessary committees, locating a site, and, finally, establishing the center.

LEE COUNTY ENVIRONMENTAL EDUCATION PROGRAM
2055 Central Avenue
Fort Myers, FL 33091

Five student learning activity modules for grades K-6:

Turning Lights Off – Turns Me On. A coloring book format is used to demonstrate ways of conserving and not conserving electricity. Kindergarten. $0.20 a copy plus postage.

Energy – Where Do We Get It And How Do We Use It? Presents a short history of electricity and its uses. Simple experiments and ways of conserving electricity are included. Grade 3. $0.25 a copy plus postage.

Conservation of Energy. Presents a brief origin and development of electricity. Points out responsibility factors; contains pages for transparencies. Grade 4. $0.40 a copy plus postage.

The Energy Crisis – The Dictionary As A Resource. A five lesson unit similar to the module below for Social Studies. The two modules on the energy crisis can be team taught. This module employs the energy crisis as a method to introduce the use of the dictionary and dictionary skills. Grade 6. $0.45 a copy plus postage.

The Energy Crisis – Social Studies/Interdisciplinary. A five lesson unit that uses an extensive student handout booklet. The module covers the basic reasons behind the energy problem and some possible alternatives for the future. Grade 6. $0.40 a copy plus postage.

LIPPINCOTT, J.B., COMPANY
Attn: Mail Order Department
East Washington Square
Philadelphia, PA 19105

Hellman, Hal. *Energy in the World of the Future,* 1973. Covers geothermal, nuclear, solar, and wind. For high school students. 240 pages. $6.95.

LIVING SYSTEMS
Royte 1, Box 170
Winters, CA 95694

Hammond, Jonathan and Marshall Hunt, Richard Cramer, Loren Neubauer. *A Strategy for Energy Conservation.* 1974. This work describes energy use in Davis, California, including monitoring and research work conducted in apartment buildings. It includes a program for reducing energy use in existing buildings; an energy conservative building code is described; solar house design for the Davis climate is described; planning policies to reduce energy use are suggested. 52 pages. $5.30 prepaid.

"The Davis Residential Energy Conservation Building Code: Resolution and Ordinance as Passed," 1975. 20 pages. $2.50 ppd.

Bainbridge, David and Jonathan Hammond, Marshall Hunt, Bill Kopper, Bruce Maeda. *The Davis Energy Conservation Report: Practical Use of the Sun,* 1977. This is a summary of the work con-

ducted for the City of Davis during 1975-76. It includes a description of work on passive heating and cooling; two model low cost passive solar houses with 100% natural cooling and 90% natural heating; land use and transportation planning for energy conservation; public education efforts; and an evaluation of the code implementation process. 128 pages. $10.00 prepaid.

Bainbridge, David and Jonathan Hammond. *Planning for Energy Conservation,* 1976. This includes the full text of resolutions and ordinances proposed for the City of Davis. It includes information on land use, transportation, landscaping, city operation, and life styles in relation to energy use, in addition to information on solar rights, street width, setback, solar driers, etc. 83 pages. $7.50 prepaid.

Bainbridge, David and Michael Moors. *Bikeway Planning and Design: A Primer,* 1974. An introduction to planning for bicycle usage with material on planning, design, and maintenance of bicycle facilities. 10 pages. $2.00 prepaid.

LORIEN HOUSE
P.O. Box 1112
Black Mountain, NC 28711

Rankins, William H., III and David A. Wilson. *Practical Sun Power,* 1974. Set of plans for do-it-yourself solar projects from reflectors and collectors to furnaces and greenhouses. 52 pages. $4.00 paperback.

Rankins, W.H. III and David A. Wilson. *The Solar Energy Notebook,* 1976. Information for calculating your heating and hot water needs; and climatological data for solar applications. 56 pages. $4.00 paperback.

Wilson, David A. *Creating Energy,* 1978. Projects involving concentrating the sun's energy — making steam; a solar furnace. Also a chapter and project on solar cells. 56 pages. $5.00 paperback.

LOTHROP, LEE, AND SHEPARD CO., INC.
105 Madison Avenue
New York, NY 10016

Tresselt, Alvin R. *Sun Up,* 1949. Picture story book telling of people and animals on a farm and what their activities are in relationship to the sun. Primary grades. 24 pages. $5.49 plus $0.75 handling.

LOUISIANA STATE DEPARTMENT OF EDUCATION
Science Supervisor
P.O. Box 44064
Baton Rouge, LA 70804

Conservation of Energy Teacher's Activity Guide, 1975. Background material and individual activities on energy use and conservation for students in primary through senior high school. Also many group activities for various grade levels. Much of the material is interdisciplinary and can be easily integrated into regular courses of study. 109 pages.

McDONALD'S CORPORATION
Public Relations Manager
One McDonald's Plaza
Oak Brook, IL 60521

McDonald's *Ecology Action Pack,* 1974. The *Ecology Action Pack* has been designed to make the teaching of environmental awareness a little easier for the instructor. Included are spirit duplicating masters for a student-made hanging display, a food chain wheel with two sets of questions to be used with it, the water cycle and activities to encourage water conservation, a history of trash, recycling, and energy conservation measures. Also includes a transparency on the food chain. Basically for grades 3-6, but parts may be useful in junior high classes. 29 pages. $2.00.

METROPOLITAN LIFE INSURANCE COMPANY
Environmental Choices
P.O. Box 232
New York, NY 10010

Exploring Your Environmental Choices, 1974. Interdisciplinary, multi-media kit designed to help students explore their relationship with natural and man-made surroundings and deal with such subjects as pollution, resource allocation and depletion, conservation, transportation, population, technology, and urban/rural planning. The unit may require several days to several weeks to complete. Kit contains listening tape, set of nine transparencies, spirit masters, 44-page teacher guide, 30 family participation leaflets, and a felt marker for use on transparencies. Grades 7-12. $18.50 for the kit. Please specify cassette or reel-to-reel listening tape.

MICHIGAN ASSOCIATION OF SCHOOL ADMINISTRATION
421 West Kalamazoo Street
Lansing, MI 48933

Energy Conservation Guidelines for Action, 1974. Includes curriculum guidelines, teacher background material, sample activities used in Michigan schools and a bibliography. K-12. 58 pages. $0.75 each; $0.70 for 12 or more prepaid.

MORGAN AND MORGAN
145 Palisade Street
Dobbs Ferry, NY 10522

Keyes, John. *Harnessing the Sun to Heat Your House,* 1975. A basic book on solar heating. Contains detailed temperature statistics and formulas for calculating efficiency. 208 pages. $3.95.

Keyes, John. *The Solar Conspiracy,* 1975. "Myths" about solar energy and its applications versus "facts." How big business, aided unwittingly by governmental agencies, is inhibiting the rapid development of solar energy. Also special sections of important consumer information on cutting fuel bills in an existing home, adding supplementary solar energy, and designing a new solar heated home. 124 pages plus appendix. $3.95.

Three books scheduled for publication in 1978 are:

Keyes, John. *Consumer's Handbook of Solar Energy for the United States of America and Canada.*

Andrassy, Stella. *Solar Cookbook.*

Andrassy, Stella. *Solar Food Drying Book.*

NATIONAL EDUCATION ASSOCIATION
1201 Sixteenth St., NW
Washington, DC 20036

Energy and Education: Teaching Alternatives, 1978. A collection of background readings and classroom activities for K-12 teachers. 160 pages. $7.50 approx. (Price not confirmed at time of publication.)

Energy Choices for Now: Saving, Using, Renewing. An Introduction to Energy in the Environment, 1974. The contents of this book are an introduction to the topic of energy in the environment. The material is meant to be used in any classroom where the environment is being studied and is designed to provide a variety of viewpoints, thus enabling the student to analyze, evaluate, and decide upon the energy alternatives open, both now and in the future. There is also an accompanying teacher guide to this book. 64 pages. Grades 7-12.

NATIONAL SCIENCE TEACHERS ASSOCIATION
1742 Connecticut Ave., NW
Washington, DC 20009

Elementary Packet on Environmental Education, 1973. Contains six booklets, two posters, a chart, peat pellet, and Teacher's Guide with lesson plans for four items. Listing of additional environmental education resources from business, industry, and nonprofit contributors are in the packet. $2.00.

Mervine, Kathryn E. and Rebecca E. Cawley. *Energy-Environment Materials Guide,* 1975. A selected and annotated bibliography of the most authoritative and accessible energy literature. Includes three student reading lists (by grade level), a list of films and other non-text material, a survey of energy curricular materials, and other helpful guides to materials. 82 pages. $2.00

Smith, Stephen M., editor. *Energy-Environment Mini-Unit Guide,* 1975. Seven sample student activities spanning grade levels from elementary through high school. Developed by and for teachers, these activities are complete and ready for use and contain detailed instructions and suggestions for evaluating student achievement. 220 pages. $3.00.

Fowler, John M., 1975. *Energy-Environment Source Book,* 1975. An authoritative treatment of the issues, problems, and facts of the complicated energy-environment-economic interactions. Written for teachers in an easy-to-read style, it includes extensive tables and illustrations, five technical appendices, and a glossary. 279 pages. $4.00.

Garigliano, Leonard J. and Beth Jo Knape. *Environmental Education in the Elementary School,* 1977 (revised edition). A selection of 52 articles about elementary environmental education from *Science and Children,* 1971-1976. Focuses on theories about environmental education, and classroom and outdoor activities designed to reinforce environmental awareness. 142 pages. $4.75.

NATIONAL WILDLIFE FEDERATION
Education Servicing Section
1312 Sixteenth Street, NW
Washington, DC 20036

Wert, Jonathan. *Energy: Selected Resource Materials for Developing Energy Education/Conservation Programs,* 1975. This bibliography contains materials which relate to energy education/conservation such as curriculum guides and enrichment materials. 22 pages. Single copies free; additional copies $0.10 each.

NEW ALCHEMY INSTITUTE
P.O. Box 432
Woods Hole, MA 02543

The Ark. This is a poster-photograph of the Ark, a food-raising bioshelter fusing solar architecture, windmill technology, fish culture and agriculture systems. More detailed line drawings are shown on the back. $3.00. Please prepay.

NEW JERSEY STATE DEPARTMENT OF EDUCATION
180 West State Street
Trenton, NJ 08608

Energy and Education Handbook, 1977. Contains a teacher's introduction to energy and energy conservation, teaching resource units for primary-senior high classes, and a glossary.

NORTH CAROLINA STATE BOARD OF EDUCATION
Education Building
Raleigh, NC 27603

Division of Plant Operation, Controller's Office, North Carolina State Board of Education. *Energy Conservation in North Carolina Public Schools and Institutions of the Community College System,* 1974. The purpose of this booklet is to supply schools and institutions with ideas that might be used in long-range energy conservation planning concerning the educational plant. 23 pages.

NORTH DAKOTA OFFICE OF ENERGY MANAGEMENT & CONSERVATION
1533 North 12th Street
Bismarck, ND 58501

Driver's Education Energy Packet, 1977. Developed for students in driver's education classes, this packet contains a flip chart of energy saving tips, a poster, lesson plans to cover five 50-minute class periods, transparency masters, tests, a filmstrip entitled "Don't Be Fuelish," and a 21-minute film entitled "Featherfoot."

OHIO DEPARTMENT OF EDUCATION
Division of Educational Redesign & Renewal
Room 1004 – 65 S. Front Street
Columbus, OH 43215

Battelle Center for Improved Education. *Energy: A Teacher's Introduction to Energy and Energy Conservation,* 1975. This material is intended to give the teacher background information and general suggestions for teaching units and correlated learning activities. Four teaching units provide for the differentiation of instruction. The elementary book includes units for kindergarten, primary, and upper elementary. $1.00, plus postage. The secondary book includes units for junior high, middle school, and senior high school. $1.00 plus postage.

PARENTS' MAGAZINE ENTERPRISES, INC.
Sales-Service Department
80 New Bridge Road
Bergenfield, NJ 07621

Lefkowitz, R.J. *Fuel for Today and Tomorrow,* 1974. A good book for students in grades 1-4. Tips on how everyone, even a child, can conserve energy. 64 pages. $5.41.

PENNSYLVANIA DEPARTMENT OF EDUCATION
Box 911
Harrisburg, PA 17126

The Environmental Impact of Electrical Power Generation: Nuclear and Fossil, 1973. This high school course material is an attempt to provide an unbiased, straightforward, and objective view of the advantages and disadvantages of the nuclear generation of electrical power. An effort has been made to describe the cost-benefit ratio of the various methods of generation of electrical power. 150 pages. A teacher's guide with the same title is also available. 89 pages.

Nuclear Science: A High School Course, 1971. Provides a basic but comprehensive understanding of the atom in the light of modern knowledge. Special attention is paid to the use of nuclear energy as a contributing factor in modern civilization. 119 pages.

Pennsylvania's Energy Curriculum: The Middle Grades. A comprehensive, activity oriented teacher's manual for use in the middle school and junior high school. 200 pages.

Supplementary Materials for Nuclear Science, 1971. This book is a supplement to the text, *Nuclear Science: A High School Course.* It furnishes the student with background information necessary for adequately comprehending topics covered in the nuclear science course. 103 pages.

PORTOLA INSTITUTE
558 Santa Cruz Avenue
Menlo Park, CA 94536

Energy Primer, 1975. A not-too-technical introduction to energy conservation. Plenty of information on manufacturers and equipment. 200 pages. $4.50 paperback.

PROJECT ECOLogy
Title III, ESEA
Highline Public Schools
Department of Instruction
P.O. Box 66100
Seattle, WA 98166

Meany, Marie, author; Bill Guise, Director; Project ECOLogy. *Home Sweet Earth.* Guide contains 10 complete lesson plans designed to introduce primary children to the world of energy and its use. $2.50.

Parr, Don, author; Bill Guise, Director; Project ECOLogy. *Energy Futures ...* Guide contains 11 complete energy focused lesson plans designed for junior high school science. Topics covered are: (1) energy development, (2) personal energy use, (3) school and community energy use, (4) U.S. energy use, (5) renewable energy sources, (6) non-renewable energy sources, (7) conversion, (8) electric generation, (9) electric need and growth, (10) conservation, and (11) future energy sources. $2.50.

PROJECT S.E.E.
Wyandotte Public Schools
891 Goddard Road
Wyandotte, MI 48192

GREEP on Energy. Mini-units which were designed by students to be taught by teachers to other students. Grade 12.

PUBLIC INTEREST RESEARCH GROUP
P.O. Box 19312
Washington, DC 20036

A Citizen's Handbook on Solar Energy, 1977. An introduction to the economic and technical feasibility of solar energy. Discusses current solar research. 92 pages. $3.50 for individuals; $15.00 for institutions and businesses.

This organization has an extensive list of related publications. Write for catalogue.

PUTNAM'S, G.P., SONS
200 Madison Avenue
New York, NY

The Energy Saver's Catalogue, 1977. By the editors of *Consumer Guide.* Illustrated. $12.95 cloth. $6.95 paperback.

Woodburn, John H. *The Whole Earth Energy Crisis,* 1973. This book covers the energy problem. Discussion runs the gauntlet from decreasing energy supplies to how present energy use is affecting the environment and energy policy developments. Grades 5-9. 190 pages. $5.39.

RAIN
2270 N.W. Irving
Portland, OR 97210

Schatz, Diane, *Urban Ecotopia,* 1976. A reprint of the "Visions of Ecotopia" line drawing that appeared in the April, 1976 issue of RAIN. Good for coloring. $3.00. Please prepay.

Schatz, Diane, *Suburban Ecotopia,* 1976. This poster is a companion piece to the above and depicts a section of suburbia that has been reconverted to an energy-efficient community. $3.00. Please prepay.

READING LABORATORY, INC.
P.O. Box 681
Norwalk, CT 06854

Energy and Ecology: A Newsbook, 1976. Contains eleven reading selections and associated exercises which explore the history, ramifications and possible solutions of the energy/ecology dilemma while developing selected reading skills. The selections range in length from 500 to 800 words and have an approximate readability level of fifth to sixth grade. The combination of low readability and mature interest makes *Energy and Ecology* highly suitable for use in content area reading instruction and general reading instruction for developmental students at the middle and junior high school levels and for remedial students at the high school level. Vocabulary definitions and discussion questions are included. 44 pages. Student copy and teacher's guide $2.25 each; set of 25 $49.50.

SAMES, HOWARD W.
4300 W. 62nd Street
Indianapolis, IN 46268

Belt, Forest H. *Easi-Guide to Conserving Energy and Materials,* 1974. A very basic book, especially good chapters on auto maintenance and home-heating systems. 128 pages. $3.50 paperback.

SAN DIEGO COUNTY DEPARTMENT OF EDUCATION
School/Community Services Section
6401 Linda Vista Road
San Diego, CA 92111

San Diego City/County Schools Energy Education Committee. *Energy for Today and Tomorrow,* 1975. Activities for students in grades K-6. Focus is on creating an awareness of the need for dealing with energy problems.

SCRIBNER'S, CHARLES, SONS
597 Fifth Avenue
New York, NY 10017

Environmental Action Coalition Staff. *It's Your Environment,* 1976. This book contains information about, and suggestions for improving the environment, as well as experiments to do and fun things to make. $8.95 hardcover; $4.95 paperback.

Goudey, Alice E. *The Day We Saw the Sun Come Up,* 1961. Tells of the sun's relationship with the earth through pictures and a story. Primary grades. 28 pages. $7.95.

SIERRA CLUB, THE
1050 Mills Tower
San Francisco, CA 94104

Energy and the Sierra Club. Illustrated pamphlet gives a comprehensive overview of and explanation of Sierra Club policy regarding energy use and conservation. Deals with economics, rate structures, regulation, siting, research, and alternative energy sources. Senior high school/adult. 8 pages. $0.25 each.

Geothermal Energy: Prospects and Limitations. Pamphlet discusses the nature of geothermal (earth-heat) energy, the environmental problems involved in its use and its potential as a short-term alternative energy source. Senior high/adult. 3 pages. $0.10 each.

Nuclear Power and the Sierra Club. Pamphlet explains the danger of developing nuclear power without stringent safeguards of life on earth; reactor safety, nuclear waste management, nuclear theft, radiation in general. Extensive bibliography of materials and organizations. Senior high/adult. 12 pages. $0.10 each.

Leckie, Jim, Gil Masters, Harry Whitehouse, Lily Young. *Other Homes and Garbage,* 1977. How to build a completely ecological house. Very technical. Illustrations, diagrams, charts, tables. Adult. 320 pages. $9.95.

Allison, Linda, *The Sierra Club Summer Book.* Illustrated conservation activities for grades 3 and up. 160 pages. $7.95 cloth; $4.95 paperback.

SOCIETY OF PETROLEUM ENGINEERS OF AIME
6200 North Central Expressway
Dallas, TX 75206

"Careers in Petroleum Engineering", April 1973. Discusses petroleum engineering and some of the fields open to petroleum engineers. Also gives high school course recommendations and requirements.

SOLAR-ED CORPORATION
Energy Curriculum Materials
1627 Litchfield Turnpike
P.O. Drawer X
Woodbridge, CT 06525

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SOUTH CAROLINA DEPARTMENT OF EDUCATION
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The Energy Book, 1974. An interdisciplinary guide to the teaching of energy. The book contains individualized activities for K-3, 4-6, and 7-12 students, as well as small group and class activities. One section deals with using the newspaper as a resource. 29 pages. $2.50. Make check payable to South Carolina Department of Education.

SUPERINTENDENT OF DOCUMENTS
U.S. Government Printing Office
Washington, DC 20402

United States Department of the Interior, Bureau of Land Management. *All Around You, An Environmental Study Guide,* 1971. Learning activities on many aspects of the environment. Activities begin in the classroom and move outside to the schoolyard, the town, and natural or rural areas. Interesting and varied activities. Best suited for upper elementary grades and junior high, but can be adapted to other grades. 177 pages. $2.65. Order by stock number 2411-00043.

TEA, INC.
4 Church Hill
Harrisville, NH 03450

Scully, Dan, Don Prowler, and Bruce Anderson. *The Fuel Savers: A Booklet of Solar Ideas for Existing Homes.* Eighteen affordable ways to use solar energy in your existing home. A best seller at public energy fairs. 64 pages. $2.75.

Anderson, Bruce, with Michael Riordan, Cheshire Books. *The Solar Home Book.* For the non-technical reader. Easy to follow; more than 160 photographs, drawings, and diagrams. 304 pages. $8.50.

Solar Age Magazine, *Solar Age Catalog,* 1977. Guide to solar product manufacturers and services, with contributions by foremost authorities. 230 pages. $8.50.

TENNESSEE ENERGY AUTHORITY
Suite 250, Capitol Hill Building
Seventh and Union
Nashville, TN 37219

University of Tennessee, Environment Center. *Ideas & Activities for Teaching Energy Conservation,* Grades 7-12, 1977. Provides a basic background for the study of energy use and conservation. Dozens of classroom activities, glossary, and bibliography. 225 pages. Limited copies available.

TIME-LIFE BOOKS, INC.
Alexandria, VA 22314

Wilson, Mitchell, and the Editors of LIFE. *Energy,* 1970 (revised.) Brief descriptions of different forms and new sources of energy. Historical knowledge and illustrations. Grades 7-9. 200 pages. $5.95.

TOPEKA PUBLIC AND PAROCHIAL SCHOOLS
Environmental Education Project
1601 Van Buren
Topeka, KS 66612

Energy and You, January 1974. Presents information regarding energy problems for Levels II and III educable mentally retarded students. $2.50 per copy. Limit one copy. Permission to duplicate granted.

UNIVERSITY OF COLORADO
Educational Media Center
Stadium 360
Boulder, CO 80309

A selection of ten topics in the series: *Energy Sources — A New Beginning.* Materials include nine 30-minute 16mm color films, eight 30-minute audio cassette/slide programs, and ten study guides which include class projects, study questions, a glossary, and a brief bibliography. Materials may be purchased individually or in a package.

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Nuclear Energy — The Great Controversy, 1978. The role of the atom in peacetime is discussed along with various aspects of nuclear generated power. 16mm color film, $333.00. 3-day rental, $10.00. Audio cassette/35mm filmstrip, $15.00. Study guide, $2.50.

Nuclear Gas Stimulation — Tapping Our National Heritage, 1975. The historical use of natural gas is accounted along with potential benefits and dangers resulting through the necessity of using nuclear fracturing (nuclear gas stimulation) to gain access to natural gas reserves. 16mm color film, $333.00. 3-day rental, $10.00. Audio cassette/35mm filmstrip, $15.00. Study guide, $2.50.

Oil Shale — The Rock That Burns, 1975. A discussion of recovering oil from oil shale and the economic and environmental problems involved. 16mm color film, $333.00. 3-day rental, $10.00. Audio-cassette/35mm filmstrip, $15.00. Study guide, $2.50.

The Sleeping Giant — Coal, 1975. The history of coal usage, its accumulation and deposition and utilization through technical processes. 16mm color film, $333.00. 3-day rental, $10.00. Audio-cassette/35mm filmstrip, $15.00. Study guide, $2.50.

Solar Power — The Giver of Life, 1975. Offers solar power as a possible solution to our decreasing energy supplies. Changes that must be made in our lifestyle as well as problems that must be overcome are discussed. 16mm color film, $333.00. 3-day rental, $10.00. Audio-cassette/35mm filmstrip, $15.00. Study guide, $2.50.

Tar Sands — Future Fuel, 1975. The development of tar sands, a little-known energy resource, and the economic aspects of that development are discussed. 16mm color film, $333.00. 3-day rental, $10.00. Audio-cassette/35mm filmstrip, $15.00. Study guide, $2.50.

Wind Power — The Great Revival, 1975. Storage and use of wind energy, combinations of solar and wind power and the financial support for this energy source. 16mm color film, $333.00. 3-day rental, $10.00. Audio-cassette/35mm filmstrip, $15.00. Study guide, $2.50.

Teaching the Energy Series, 1975. This teaching guide includes suggestions for teaching the series, background for the project, and bibliographies of teaching and reference materials for each of the energy topics. $2.50.

The above material is suitable for high school. The entire set of 16mm color films may be purchased for $2,600.00. The set of 8 audio-cassette/filmstrips may be purchased for $100.00.

UNIVERSITY OF THE STATE OF NEW YORK, THE
State Education Department
Albany, NY 12224

Living Within Our Means: Energy and Scarcity. There are two books with this title. One is written for grades K-6, the other for grades 7-12. Both contain activities for different subjects within the curriculum to allow an interdisciplinary approach to the energy problem. The K-6 book has 82 pages, $1.00. The 7-12 guide has 106 pages, $0.50. Order must be accompanied by a check or money order payable to NYS Education Lab.

UNIVERSITY OF WISCONSIN, THE
Sea Grant College Program
1800 University Avenue
Madison, WI 53706

Smith, Thomas W., and John Jenkins. *The Household Energy Game,* 1974. This booklet has been designed to give the reader some idea of how much energy he uses and how he can manage it. In the first part of the game, the reader formulates an "energy budget" showing how much energy is used. Then suggestions for modifying the budget in order to conserve energy are made. Appropriate for high school students and adult education groups. 20 pages. $0.15.

UNIVERSITY OF WYOMING
Science-Math Teaching Center
University Station, Box 3992
Laramie, WY 82071

Mathematical Application Problems for Energy and Energy Conservation, 1977. Grades 7-9. 14 pages. $0.50.

Solar Heating Activities Constructed With Junk, 1978. Grades 4-8. 2 pages.

VINTAGE BOOKS
Random House
201 East 50th Street
New York, NY 10022

Freeman, S. David. *Energy: The New Era,* 1974. An analysis of oil, coal and natural gas wastage, a survey of alternative sources, and a discussion of needed international incentives and controls. 386 pages. $2.45 paperback.

Stoner, Carol Hupping (ed.). *Producing Your Own Power,* 1975. Selected small-scale energy systems are discussed. Included are projects for solar, wind, and methane. 322 pages. $3.95 paperback.

VIRGINIA ENERGY OFFICE
823 East Main Street
Richmond, VA 23219

Energy in the Classroom, 1975. (Plans were to update in early 1978.) This is a three volume activity guide for teaching students to learn to live in a world where energy is becoming scarce and expensive and where conservation must be practiced if our standard of living is to be maintained.

Volume I, *Activity Guide for K-3,* contains ideas for introducing and discussing the concept of energy and how it applies to everyday living. Also included are experiments and demonstrations, puzzles, games, a brief glossary, and a short bibliography. 38 pages. $2.00. (Free to Virginia teachers only.)

Volume II, *Activity Guide for 4-7,* contains an introduction to our national energy problem, energy activities and demonstrations, discussions of our major energy resources, conservation activities, a glossary, and a teacher's resource section. 102 pages. $3.00. (Free to Virginia teachers only.)

Volume III, *Activity Guide for 8-12,* contains a brief introduction to the energy crisis, and classroom activities and discussion ideas for students in all areas of instruction. Also included are activities for club and community involvement, and a teacher's resource section. 143 pages. $3.00. (Free to Virginia teachers only.)

VIRGINIA STATE DEPARTMENT OF EDUCATION
Science Department
1322 E. Grace Street
Box 6Q
Richmond, VA 23216

Environmental Education Guide K-12, 1974. Interdisciplinary activity guide for students K-12. Exploration of the environment from the classroom to the world at large, and the student's place in that environment. 92 pages.

WALT DISNEY EDUCATIONAL MEDIA
500 South Buena Vista St.
Burbank, CA 91521

Walt Disney Productions. *Wide World of Energy Kit,* 1976. Kit contains cassette and color filmstrip titled, "The Search for Power and Energy;" 18 full-color study prints; Energy Game; 30 copies of the energy comic book, "Mickey Mouse and Goofy Explore Energy," 10 energy activity cards; teacher's guide with information and additional activities. K-6. $119.00.

WASHINGTON STATE DEPARTMENT OF PUBLIC INSTRUCTION
Environmental Education Programs
Old Capitol Building
Olympia, WA 98504

ConservAction Curriculum Materials (draft copy), 1978. Approximately 100 interdisciplinary classroom activities on energy and the environment. The activities are designed to make students aware of their role in the environment and in the conservation of energy. Grades K-12. 60 pages.

WESTMINSTER PRESS
Room 905
Witherspoon Building
Philadelphia, PA 19107

Grey, John. *The Rage for Electric Power,* 1972. Specifically for high school students, this book takes a look at electricity's place in the energy future. The generation, conservation, transmission, and use of electric power is discussed along with electricity's role in the energy crisis. 122 pages. $5.95.

WORLD FUTURE SOCIETY
P.O. Box 30369
Washington, DC 20014

Schmalz, Anton B. *Energy: Today's Choices, Tomorrow's Opportunities,* 1974. A collection of essays on energy covering topics such as resources, technology, economics, and pattern changes in energy consumption. Recommended as a teacher's reference. 301 pages. $6.00.

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